

FIG . 1

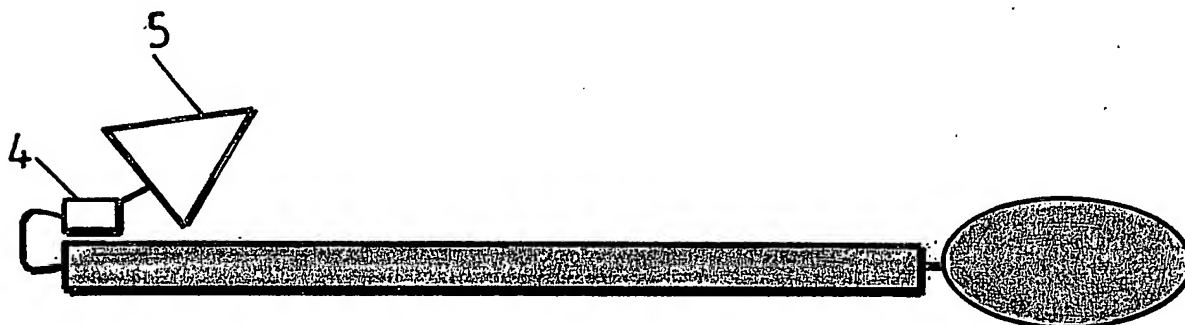


FIG . 2

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FIG. 3

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FIG. 3 cont;

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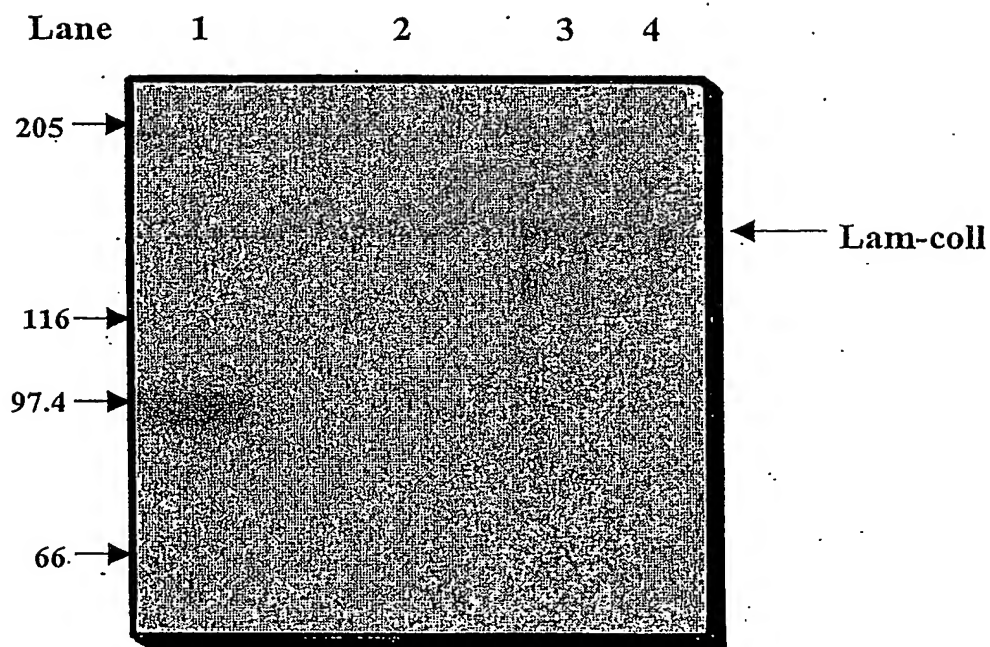
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FIG. 4

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D E P M D F K I N T D E I M T S L K S V N G Q I E S L I S P D  
G S R K N P A R N C R D L K F C H P E L K S G E Y W V D P N Q  
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W W T D S S A E K K H V W F G E S M D G G F Q F S Y G N P E L  
P E D V L D V Q L A F L R L L S S R A S Q N I T Y H C K N S I  
A Y M D Q A S G N V K K A L K L M G S N E G E F K A E G N S K  
F T Y T V L E D G C T K H T G E W S K T V F E Y R T R K A V R  
L P I V D I A P Y D I G G P D Q E F G V D V G P V C F L

FIG 4 cont;

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FIG. 6

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taa

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FIG. 6 cont;



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RLLIDDDQLLRNSKRRLKHISSSSRQSSLRLGGSN  
FEGCISNVFVQRLSLSPENVLDLTSNSLKRDRV  
SLGGCSSLNKPFFLMMLLVKGSTREFNKTKTFRIN  
QLLQDDTPVASSPRSVKLVWQDANNGOQPGPGPKGD  
PGPPGIPGRNGDPIPGQDPSGVAVVGLAGPY  
ESCPTGPQNYSPQYDSYDVKSGSPGVAVVGLAGPY  
PGPAGPPGPPGPPGPGTSGHPGSPGSPGYLGP  
GEPGQAGPSGPPGPPGPAIGPSGPAKGDES  
RPGRPGERGGLPGPPGIKGPAGIPGFPGMKGH  
RGFDGRNGEKGEGTAGPGLKGENGLPGENGAP  
GPMGPRGAPGERGRPGLPGAAGARGNDGARG  
SDGQGPFGPPGPGTAGFPFGSPGAKGEVGPAGS  
PGSNAGAPPGQRGEPGPGQGHAGAGPFGPPGIN  
GSPGGKGE MGPAGIPGAGGLMGARGPFGPAG  
ANGAPGLRGGAAGEPGKNGAKGEPGRPERGE  
AGIPGVPGA KGEDGKDGSPEGEPGANGLPGA  
GERGAPGFRGPAGPNNGIPGEKGPAGERGAPG  
PAGPRGAAGEPGRDGVPGGPGMRGMPGSPGG  
PGSDGKPGPPGSGQGESGSRPGPPGSPRGP  
GVMGFPGPKGNQDGAAPGKNGERGGPGPGP  
PPGKNGETGTGNQDGPFGPTGPGGDKGDTGPP  
QGLQGLPLGTGGPPPGENGKPGEPGKGDAGAP  
GAPGGKGDAGAPGERGPPGLAGAPGLRGAG  
PPGPEGGKGAAGPPGPPGAAGTGPLQGMPE  
RGGLGSPGPKGDKGEPGGPGADGVPGKDGPR  
GPTGPPIGPPGPAGQPGDKGEGGAPGLPGIAG  
PRGSPGERGETGPPGPAGFPGAPGQNGEPGG  
KGERGAPGEKGE GPPGVAGPPGGS GPAGPP  
GPQGKGERGSGSGPGKDGPPGPAAGNTGAPGS  
SNGNPGPPGPSGSPGKDGPPGPAAGNTGAPGS  
PGVSGPKGDAGQPGEKDGSPPGAQGPAGPGL  
GIAGITGARGLAGPPGMPGPRGSPGPPQGVK  
ESGKPGANGLSGERGPFGPQGLPLAGTAG  
PGRDGNPGSDGLPGRDGSPPGKGD RGENGSP  
GAPGAPGHPGPPGPVGPAGKSGDRGESGPAG  
PAGAPGPAGSRGAPGPQGPRGDKGEGTGERGA  
AGIKGHRGFPGNPGAPGSPGPAAGQQGAIGSP  
GAPAGPRGPVGPSPGPPGKDGTPGHPGPIGPP  
PRGNRGERGSESGSPGHPGQPGPPGPAAGP  
CCGGVGAAAAIAGIGGEKAGGFAPYYGDEPMD  
FKINTDEIMTSLKSVNGQIESLISP DGSRKN  
PARNCRD LKFCHPELKSGEYWVDPNQGC KLD  
AIKVFCNMETGETCISANPLNVPRKHWTD  
SAEKKHVLWFGESMDGGFFSYGNPELPEDVL  
DVGQNLAFVLRLLLSMRASQNI TYHCKNSIAYMDQ  
ASGNVKKALKLMSG SNEGFEYKAEKNSKFTYTV  
LEDGCTKHTGEWSKT VFEYRTRKAVRLPIVD  
IAPYDIGGPDQEF GVDVGPVCF

FIG. 7

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atgaagtc	cagcggcctc	ttccccttcc	tggtgctgct	tgccctggga
actctggcac	cttgggctgt	ggaaggctct	ggaaagtcc	tcaaagctgg
agtctgtcct	cctaagaaat	ctgccagtg	ccttagatac	aagaaacctg
agtgccagag	tgactggcag	tgtccaggga	agaagagatg	ttgtcctgac
acttgtggca	tcaaattgcct	ggatcctgtt	gacaccccaa	acccaacaag
gaggaagcct	gggaagtgcc	cagtgactta	tggccaatgt	ttgatgctta
acccccccaa	tttctgtgag	atggatggcc	agtgcaagcg	tgacttgaag
tgttgcattg	gcattgtgtg	gaaatcctgc	gtttcccctg	tgaaagct

gctgt	tgaaggagga	tgttcccatc	ttggtcagtc	ctatgoggat
agagatgtct	ggaagccaga	accatgccaa	atatgtgtct	gtgactcagg
atccgttctc	tgcatgaca	taatatgtga	cgatcaagaa	ttagactgcc
ccaaccaga	aattccattt	ggagaatgtt	gtgcagtttg	cccacagcct
ccaactgctc	ctactcgccc	tcctaattggt	caaggacctc	aaggccccaa
gggagatcca	ggccctcctg	gtattcctgg	gagaaatggg	gaccctggta
ttccaggaca	accaggggtcc	cctgggttctc	ctggcccccc	tggaaatctgt
gaatcatgcc	ctactgggtcc	tcagaactat	tctccccagt	atgattcata
tgatgtcaag	tctggagtag	cagtaggagg	actcgcaggc	tatcctggac
cagctggccc	cccaggccct	ccgggtcccc	ctggtacatc	tggtcatcct
ggttcccctg	gatctccagg	ataccaagga	ccccctgggtg	aacctgggca
agctgggtcct	tcaggccctc	caggacctcc	tggtgctata	ggtccatctg
gtcctgctgg	aaaagatgga	gaatcaggta	gacccgagcg	acctggagag
cgaggattgc	ctggacctcc	aggtatcaaa	ggtccagctg	ggatacctgg
attccctgggt	atgaaaggac	acagaggctt	cgatggacga	aatggagaaa
agggtgaaac	aggtgctcct	ggattaaagg	gtgaaaatgg	tcttccaggc
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actgatggga	gcccgggggtc	ctccaggacc	agccgggtgct	aatgggtgctc
ctggactgcg	aggtgggtgca	ggtgagcctg	gtaagaatgg	tgccaaagga
gagcccgagc	cacgtgggtga	acgcgggtgag	gctgggtattc	caggtgttcc
aggagctaaa	ggcgaagatg	gcaaggatgg	atcacctgga	gaacctgggtg
caaattgggt	tccaggagct	gcaggagaaa	ggggtgcccc	tgggttccga
ggacctgctg	gaccaaattg	catcccagga	gaaaagggtc	ctgctggaga
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ccaggaggac	caggaagtga	tgggaaacca	gggcctcccg	gaagtcaagg
agaaagtgggt	cgaccagggtc	ctcctggggc	atctgggtccc	cgaggtcagc
ctgggtgtcat	gggcttcccc	ggtcctaag	gaaatgatgg	tgctcctgggt

FIG. 8

aagaatggag	aacgaggtgg	ccctggagga	cctggccctc	agggtcctcc
tggaaagaat	ggtgaaactg	gacctcaagg	acccccaggg	cctactgggc
ctggtggtga	caaaggagac	acaggacccc	ctggtccaca	aggattacaa
ggcttgcttg	gtacaggtgg	tcctccagga	gaaaatggaa	aacctgggga
accaggtcca	aaggggtgatg	ccggtgcacc	tggagctcca	ggaggcaagg
gtgatgctgg	tgcccctggt	gaacgtggac	ctcctggatt	ggcagggggc
ccaggactta	gaggtggagc	tggccccct	ggtcccgaag	gaggaaaggg
tgctgctggt	cctcctgggc	cacctgggtgc	tgctggtact	cctggtctgc
aaggaatgcc	tggagaaaga	ggaggtcctg	gaagtcctgg	tccaaagggt
gacaaggggtg	aaccaggcgg	cccaggtgct	gatgggtgtcc	cagggaaaga
tggcccaagg	ggtcctactg	gtcctattgg	tcctcctggc	ccagctggcc
agcctggaga	taagggtgaa	ggtggtgccc	ccggacttcc	aggatatagct
ggacctcgtg	gtagccctgg	tgagagaggt	gaaactggcc	ctccaggacc
tgctggtttc	cctggtgctc	ctggacagaa	tggatgaacct	ggtggtaaag
gagaaagagg	ggctccgggt	gagaaagggtg	aaggaggccc	tcctggagtt
gcaggacccc	ctggaggttc	tggacctgct	ggtcctcctg	gtccccaagg
tgtcaaagggt	gaacgtggca	gtcctgggtg	acctgggtgct	gctggcttcc
ctggtgctcg	tggctctcct	ggtcctcctg	gtagtaatgg	taaccaggga
ccccaggtc	ccagcgggtc	tcagggaag	gatgggcccc	caggtcctgc
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atgctggcca	accaggagag	aagggatcgc	ctggtgcca	gggcccacca
ggagctccag	gcccacttgg	gattgctggg	atcactggag	cacgggggtct
tgcaggacca	ccaggcatgc	caggtcctag	gggaagccct	ggccctcagg
gtgtcaagggt	tgaagtggtg	aaaccaggag	ctaacgggtct	cagtggagaa
cgtggtcccc	ctggacccca	gggtcttcct	ggtctggctg	gtacagctgg
tgaacctgga	agagatggaa	accctggatc	agatgggtctt	ccaggccgag
atggatctcc	tgggtggcaag	ggtgatcgtg	gtgaaaatgg	ctctcctggt
gcccctggcg	ctcctgggtca	tcaggccca	cctggtcctg	tcggtccagc
tggaaagagt	ggtgacagag	gagaaagtgg	ccctgctggc	cctgctgggtg
ctcccgggtcc	tgctgggttcc	cgaggtgctc	ctggtcctca	aggcccacgt
ggtgacaaag	gtgaaacagg	tgaacgtgga	gctgctggca	tcaaaggaca
tcgaggattc	cctggtaatc	caggtgcccc	aggttctcca	ggccctgctg
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ggttgaccca	gtggacctcc	tggcaaagat	ggaaccagtg	gacatccagg
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aatggacaaa	tagaaagcct	cattagtcct	gatggttctc	gtaaaaaccc
cgctagaaac	tgagagacc	tgaaattctg	ccatcctgaa	ctcaagagtg
gagaatactg	ggttgaccct	aaccaaggat	gcaaattgga	tgctatcaag
gtattctgta	atatggaaac	tggggaaaca	tgcataagtg	ccaatccttt
gaatgttcca	cggaaacact	ggtggacaga	ttctagtgtc	gagaagaaac
acgtttgggt	tggagagtcc	atggatgggtg	gttttcagtt	tagctacggc
aatcctgaac	ttcctgaaga	tgtccttgat	gtgcagctgg	cattccttcg
acttctctcc	agccgagctt	cccagaacat	cacatatcac	tgcaaaaata
gcattgcata	catggatcag	gccagtggaa	atgtaaagaa	ggccctgaag
ctgatggggt	caaatgaagg	tgaattcaag	gctgaaggaa	atagcaaatt

FIG. 8 cont;

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cacctacaca gttctggagg atggttgcac gaaacacact ggggaatgga  
gcaaaacagt ctttgaatat cgaacacgca aggctgtgag actacctatt  
gtagatattg cacoctatga cattggtggt cctgatcaag aatttggtgt  
ggacgttggc cctgtttgct tttataaa
```

FIG. 8cont;

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Met K S S G L F P F L V L L A L G T L A P W A V E G S G K S  
 F K A G V C P P K K S A Q C L R Y K K P E C Q S D W Q C P G  
 K K R C C P D T C G I K C L D P V D T P N P T R R K P G K C  
 P V T Y G Q C L Met L N P P N F C E Met D G Q C K R D L K C  
 C Met G Met C G K S C V S P V K A

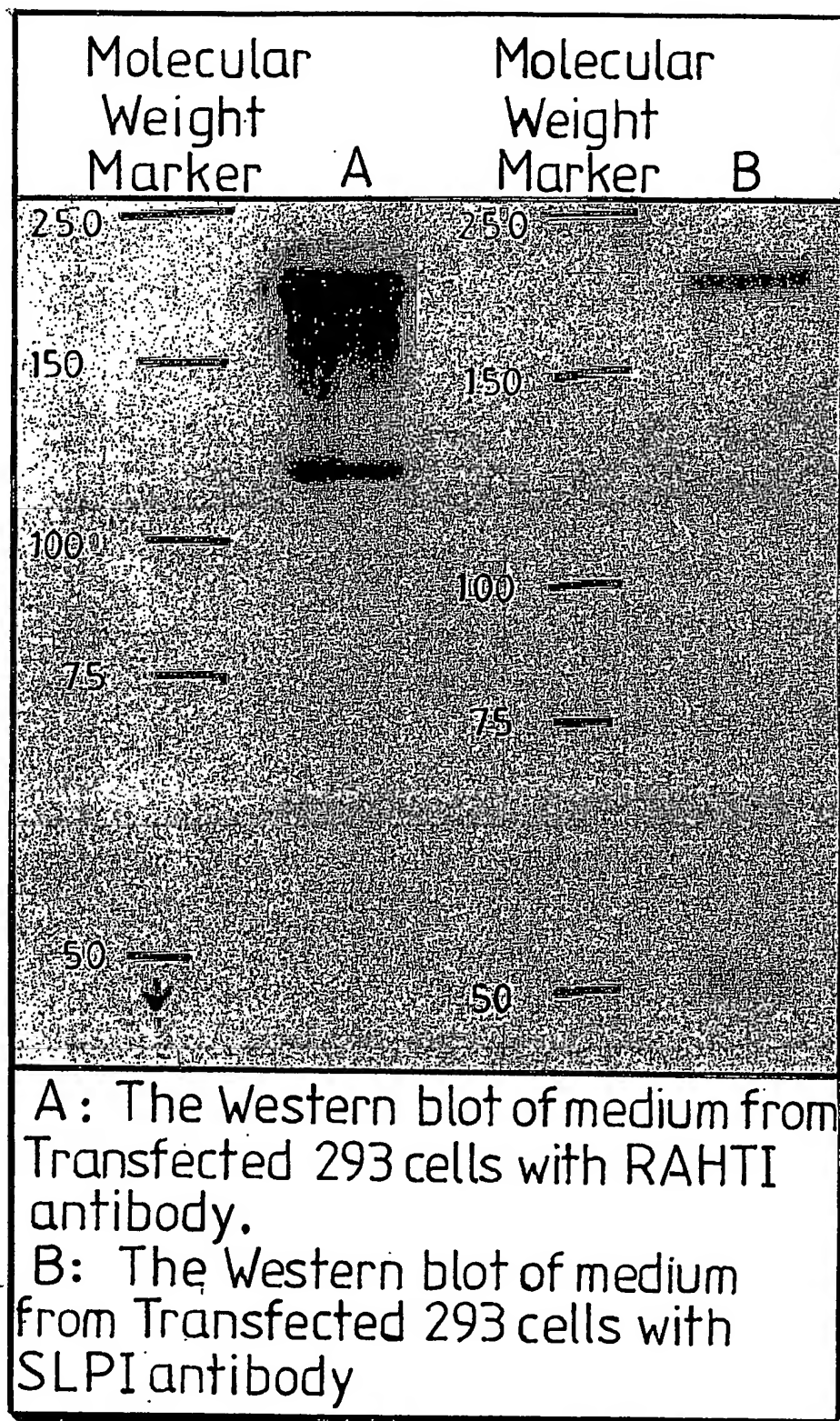
A V E G G C S H L G Q S Y A D R D V W K P E P C Q I C V C D  
 S G S V L C D D I I C D D Q E L D C P N P E I P F G E C C A  
 V C P Q P P T A P T R P P N G Q G P Q G P K G D P G P P G I  
 P G R N G D P G I P G Q P G S P G S P G P P G I C E S C P T  
 G P Q N Y S P Q Y D S Y D V K S G V A V G G L A G Y P G P A  
 G P P G P P G P P G T S G H P G S P G S P G Y Q G P P G E P  
 G Q A G P S G P P G P P G A I G P S G P A G K D G E S G R P  
 G R P G E R G L P G P P G I K G P A G I P G F P G Met K G H  
 R G F D G R N G E K G E T G A P G L K G E N G L P G E N G A  
 P G P Met G P R G A P G E R G R P G L P G A A G A R G N D G  
 A R G S D G Q P G P P G P P G T A G F P G S P G A K G E V G  
 P A G S P G S N G A P G Q R G E P G P Q G H A G A Q G P P G  
 P P G I N G S P G G K G E Met G P A G I P G A P G L Met G A  
 R G P P G P A G A N G A P G L R G G A G E P G K N G A K G E  
 P G P R G E R G E A G I P G V P G A K G E D G K D G S P G E  
 P G A N G L P G A A G E R G A P G F R G P A G P N G I P G E  
 K G P A G E R G A P G P A G P R G A A G E P G R D G V P G G  
 P G Met R G Met P G S P G G P G S D G K P G P P G S Q G E S  
 G R P G P P G P S G P R G Q P G V Met G F P G P K G N D G A  
 P G K N G E R G G P G G P G P Q G P P G K N G E T G P Q G P  
 P G P T G P G G D K G D T G P P G P Q G L Q G L P G T G G P  
 P G E N G K P G E P G P K G D A G A P G A P G G K G D A G A  
 P G E R G P P G L A G A P G L R G G A G P P G P E G G K G A  
 A G P P G P P G A A G T P G L Q G Met P G E R G G L G S P G  
 P K G D K G E P G G P G A D G V P G K D G P R G P T G P I G  
 P P G P A G Q P G D K G E G G A P G L P G I A G P R G S P G  
 E R G E T G P P G P A G F P G A P G Q N G E P G G K G E R G  
 A P G E K G E G G P P G V A G P P G G S G P A G P P G P Q G  
 V K G E R G S P G G P G A A G F P G A R G L P G P P G S N G  
 N P G P P G P S G S P G K D G P P G P A G N T G A P G S P G  
 V S G P K G D A G Q P G E K G S P G A Q G P P G A P G P L G  
 I A G I T G A R G L A G P P G Met P G P R G S P G P Q G V K  
 G E S G K P G A N G L S G E R G P P G P Q G L P G L A G T A  
 G E P G R D G N P G S D G L P G R D G S P G G K G D R G E N  
 G S P G A P G A P G H P G P P G P V G P A G K S G D R G E S

FIG. 9

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G P A G P A G A P G P A G S R G A P G P Q G P R G D K G E T  
G E R G A A G I K G H R G F P G N P G A P G S P G P A G Q Q  
G A I G S P G P A G P R G P V G P S G P P G K D G T S G H P  
G P I G P P G P R G N R G E R G S E G S P G H P G Q P G P P  
G P P G A P G P C C G G V G A A A I A G I G G E K A G G F A  
P Y Y G D E P Met D F K I N T D E I Met T S L K S V N G Q I  
E S L I S P D G S R K N P A R N C R D L K F C H P E L K S G  
E Y W V D P N Q G C K L D A I K V F C N Met E T G E T C I S  
A N P L N V P R K H W W T D S S A E K K H V W F G E S Met D  
G G F Q F S Y G N P E L P E D V L D V Q L A F L R L L S S R  
A S Q N I T Y H C K N S I A Y Met D Q A S G N V K K A L K L  
Met G S N E G E F K A E G N S K F T Y T V L E D G C T K H T  
G E W S K T V F E Y R T R K A V R L P I V D I A P Y D I G G  
P D Q E F G V D V G P V C F L Stop

FIG. 9 cont;

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